

awards and contracts

The College of Veterinary Medicine's Research Office recorded nearly \$42 million in sponsored grants and contracts in 2010-2011.

Name	Sponsor	Title	Annual Award
Administration			\$ 228,725
Robert Gilmour	Merial Limited NIH	Merial Veterinary Scholars Research Program Cornell University Veterinary Investigator Program	\$ 15,000 \$ 45,684
Robert Gilmour; Colin Parrish	NIH	Veterinary Student Training in Biomedical Research	\$ 133,798
Erla Heyns	New York State Department of Education	Coordinated Collection Development Aid	\$ 4,243
Jai Sweet	USDA-Higher Education Grants Program	Enhancing Diversity: Multi-Cultural Scholars Program at Cornell	\$ 30,000
Animal Health Diagnostic Center			\$ 8,024,570
Bruce Akey	USDA New York State Agriculture and Markets New York State Agriculture and Markets New York State Department of Environmental Conservation	National Animal Health Laboratory Network: NY Animal Health Diagnostic Center and Quality Milk Production Services Avian Influenza Surveillance Testing Zoonotic & Wildlife Disease Diagnostic Testing in New York State for Chronic Wasting Disease (CWD) and Avian Influenza	\$ 298,000 \$ 6,855,000 \$ 216,875 \$ 634,695
Edward Dubovi	USDA-APHIS	Analyze Serum Samples from Raccoons for Virus Neutralizing Antibodies to Canine Distemper	\$ 20,000
Baker Institute for Animal Health			\$ 4,941,261
Gregory Acland	NIH Foundation Fighting Blindness	Models for Therapy of Hereditary Retinal Degenerations Module I-Medical Therapy Service Facility	\$ 795,114 \$ 270,000
Judith Appleton	NIH	Eosinophils Sustain Chronic Nematode Infection	\$ 76,230
Margaret Brosnahan; Douglas Antczak	NIH	Immune Tolerance to Serial Trophoblast Transplants	\$ 83,615
Scott Coonrod	NIH DOD-BCRP-Era of Hope	Role of Maternal PAD16 in Embryonic Development Epigenetic Analysis of Breast Cancer	\$ 264,637 \$ 676,317
Anna Kukekova	NIH	Molecular Mechanisms of Social Behavior	\$ 325,800
Leela Noronha; Douglas Antczak	NIH	Characterization of T Lymphocyte Modulation in Pregnancy	\$ 67,062
John Parker	BARD (US-Israel) NIH NIH	Development of a plasmid-based reverse genetics system for Bluetongue and Epizootic Hemorrhagic Disease viruses to allow a comparative characterization of the function of the NS3 viroporin in viral egress Short-Term Training of Students in the Health Professions Graduate Training Program in Comparative Medicine	\$ 51,000 \$ 74,237 \$ 400,887
Colin Parrish	NIH NIH NIH-The Pennsylvania State University	Mechanisms of Parvovirus Infection and Host Range Structural Controls of Functional Receptor and Antibody Binding to Viral Capsids The Evolutionary and Biological Bases of Host Switching in Viruses	\$ 368,275 \$ 399,710 \$ 121,897
Alexander Travis	NIH-Director's Pioneer Award Program NIH-Fred Hutchinson Cancer Research Center	Nanoscale Energy Production for Implantable Medical Devices Towards a Canine Model of Fanconi Anemia	\$ 770,000 \$ 136,480
Xuesen Zhang; Scott Coonrod	Susan G. Komen for the Cure	Role for PAD4 as an Estrogen-regulated Transcription Cofactor During Mammary Development and Breast Cancer	\$ 60,000
Biomedical Sciences			\$7,686,179
Klaus Beyenbach	National Science Foundation	Travel Support for Junior and Underrepresented US Scientists to Present Research at the 2011 SEB Meetings in Glasgow, Scotland	\$ 15,000
Christopher Blackwood; Dave Lin	NIH	Regulation of Neurogenesis by Jagged1 in the Embryonic SVZ	\$ 34,120
Chen-Hua Chuang	DOD-BCRP-predoc	Role of DNA Replication Defects in Breast Cancer	\$ 32,289

Name	Sponsor	Title	Annual Award
Biomedical Sciences (con't)			
Huai-hu Chuang; John Schimenti	American Heart Association - Founders	Mechanistic Analysis of Oxidative Modulation of TRPV1	\$ 66,000
Paula Cohen	NIH	The MLH1-MLH3 Heterodimer in Mammalian Meiotic Recombination and Gametogenesis	\$ 303,700
Robin Davisson	NIH	Role of Redox-Mediated Activation of NF-Kappa B and AP-1 in Neurogenic Hypertension	\$ 488,688
	NIH	Menopausal Changes in Hypothalmas and Hypertension Susceptibility	\$ 33,653
	NIH-Weill Cornell Medical College	Forebrain Plasticity in Hypertension: Core D	\$ 242,672
	NIH-Weill Cornell Medical College	Forebrain Plasticity in Hypertension: Project 1	\$ 311,291
	Qatar National Research Fund	Abnormalities in Bone Development Associated with Pre-eclampsia	\$ 114,661
	NIH-University of Iowa	Genetic and Signaling Mechanisms in the Central Regulation of Blood Pressure	\$ 92,127
Gerald Duhamel	Hoffmann-La Roche Inc.	Veterinary Anatomic Pathology Residency	\$ 66,745
	NIH	Contribution of Campylobacter jejuni Nuclease in Animal Models of Acute Infection	\$ 183,973
Flavio Fenton	National Science Foundation	Nonlinear Dynamics and Bifurcations in Cardiac Tissue	\$ 119,966
	NSF-University of Georgia	CDI-Type II: Collaboration Research: Dynamics and Control of Cardiac	\$ 178,273
	NSF-SUNY Stonybrook	Collaborative Research: Next-Generation Model Checking and Abstract Interpretation with a Focus on Embedded Control and Systems Biology	\$ 84,950
Joanne Fortune	NIH	Role of Fetal Steroids in Formation and Activation of Bovine Ovarian Follicles	\$ 190,575
	USDA-Federal Formula Funds	Effects of Endocrine Disrupting Chemicals (Estrogens) on Bovine Ovaries	\$ 30,000
	USDA-Federal Formula Funds	Ovarian Influences on Embryonic Survival in Ruminants	\$ 25,000
	USDA	Effects of Fetal Steroids on the Formation of Bovine Ovarian Follicles and on their Competence to Initiate Growth	\$ 83,355
Robert Gilmour	DOD-DARPA	Histology for Lifetime Bio-Electronic Interfaces: Active Probes, Imaging, and Quantifications	\$ 624,140
John Hermanson	USDA-Federal Formula Funds	Population Dynamics, Habitat Selection, Feeding Behavior and Guano Analysis of Brown Bats in Central New York	\$ 29,518
Joanna Holloway	NIH	Functional Analysis of the Dual Specificity Kinase NEK1 in Mammalian Meiosis	\$ 145,746
Michael Kotlikoff	NIH	Design of Genetically Encoded Ca2+ Indicators for in Vivo Application	\$ 100,100
	NIH-University of Vermont	Calcium Signaling in the Cerebrovascular Unit in Health and Disease	\$ 150,164
David Lin	Alzheimer's Association	A novel mouse model of neurodegeneration	\$ 80,000
	NIH	A Model for Olfactory Epithelial Neurodegeneration in Alzheimer's Disease	\$ 161,990
Kirk Maurer	NIH	The Role of T-cells and Th1 Immunity in Cholesterol Gallstones	\$ 144,531
Amy Navratil; Mark Roberson	NIH	The Role of ERK in Pituitary Organogenesis	\$ 53,810
Alexander Nikitin	Marsha Rivkin Center for Ovarian Cancer Research	Role of Stem Cells in Ovarian Cancer	\$ 75,000
	NIH	Determinants of Metastatic Progression	\$ 261,695
Niels Otani	NIH	Dynamical Heterogeneity of Refractoriness and the Induction of Reentry	\$ 390,248
	NIH	Dynamical Heterogeneity of Refractoriness and the Induction of Reentry: Research Supplements to Promote Diversity	\$ 58,006
Mark Roberson	NIH	Molecular Analysis of GnRH Action	\$ 291,581
	NIH	Reproductive Sciences and Genomics Training Program	\$ 233,879
John Schimenti	New York State Department of Health-NYSTEM	Cornell Mammalian Cell Reprogramming Core	\$ 292,606
	New York State Department of Health-NYSTEM	Genome Maintenance in Germline Stem Cells	\$ 176,042
	NIH	Research and Career Training in Vertebrate Developmental Genomics	\$ 131,851
	NIH	Genetics of Meiosis and Recombination in Mice	\$ 310,910
	NIH-The Jackson Laboratory	Reproductive Genomics: Mutant Models for Infertility	\$ 253,823
Susan Suarez	Genex Cooperative, Inc.	The Fate of Bull Sperm Storage Proteins During Capacitation of Frozen-thawed Sperm	\$ 7,450
	NIH	Sperm Motility Modulations Crucial to Fertilization	\$ 67,559
	USDA-National Research Initiative	Sperm Storage Proteins and their Relationship to Bull Fertility	\$ 116,973
Robert Weiss	NIH	Genome Maintenance by the Mouse Hus1 Checkpoint Gene	\$ 277,488
	New York State Department of Health-NYSTEM	Investigating How DNA Damage Response Mechanisms Regulate the Tumorigenic Potential of Pluripotent Cell Types Using Mouse Models of Testicular Germ Cell Tumors	\$ 164,500
Robert Weiss; Margaret McEntee	Institutional Training Grants Program	Comparative Cancer Biology Training Program	\$ 112,500
Andrew Yen	NIH	Nutritional Cell Cycle and Differentiation Control	\$ 255,305
Andrew Yen; Michael Shuler	NIH	Center on the Microenvironment and Metastasis-Project 2	\$ 21,726

Name	Sponsor	Title	Annual Award
Clinical Sciences			\$ 4,192,163
Noha Abou-Madi	Morris Animal Foundation - Wildlife Health Studies	Elephant Endothelial Cells: A System to Isolate Elephant Endotheliotropic Herpesvirus	\$ 43,998
Gregory Acland	NIH	Tools for Genetic and Genomic Studies in the Dog: ARRA Administrative Supplement	\$ 338,962
Dorothy Ainsworth	Harry M. Zweig Memorial Fund for Equine Research	The Genetic Basis of Recurrent Laryngeal Neuropathy (RLN) in Thoroughbreds	\$ 82,250
Sharon Center	Winn Feline Foundation	Investigation of the Role of Bacterial Cell Wall components, cytokine Signaling, and Myofibroblastic Fibrosis in Feline Nonsuppurative Cholangitis-Cholangiohepatitis Syndrome (CCHS) as an Aid to Improving Diagnostic Categorization and Treatment Modalitie	\$ 24,140
Sharon Center; Sean McDonough; Joseph Wakshlag	Mars Petcare U.K. Ltd.	Multiparameter Analysis of Hepatocellular Injury in Labrador Retrievers	\$ 211,942
Sofia Cerda-Gonzalez	American Cavalier King Charles Spaniel Club	Role of Morphology in Clinical Progression and Syringomyelia in Cavalier King Charels Spaniel Chiari-like Malformations	\$ 22,943
Sofia Cerda-Gonzalez; Rory Todhunter; Vicki Meyers-Wallen	Collaborative Research Program	Canine Model of Centronuclear Myopathy for Gene and Stem Cell Therapy	\$ 20,000
Jon Cheetham	Grayson-Jockey Club Harry M. Zweig Memorial Fund for Equine Research	Early Diagnosis of Recurrent Laryngeal Neuropathy Diagnosis of Poor Performance in Racehorses	\$ 43,328 \$ 43,914
Mitzi Clark; William Miller	American College of Veterinary Dermatology	Normal Digital Flora from Healthy Alpacas	\$ 6,000
Ricardo de Matos	Clinical Research Grants Program	Pharmacokinetics of the Anti-epilepsy Drug Zonisamide in Domestic Chickens	\$ 6,270
Thomas Divers	Harry M. Zweig Memorial Fund for Equine Research	Targeting Platelets as a New Treatment Strategy for Endotoxemia	\$ 30,000
Normand Ducharme	Med-El World Wide Headquarters	Laryngeal Pacemaker in Horses	\$ 512,959
M. Julia Felipe	NIH-NIH Director's New Innovator Award	Epigenetics: A Novel Approach in Primary Immunodeficiencies	\$ 462,000
Lisa Fortier	AMIPurdue-BioRegeneration Technologies Grayson-Jockey Club Harry M. Zweig Memorial Fund for Equine Research Harry M. Zweig Memorial Fund for Equine Research	Sheep Osteochondral Repair Generation of equine iPSC cells for regenerative therapy Determining Anti-Nociceptive and Matrix Restorative Mechanisms of Platelet Rich Plasma in Osteoarthritis Optimization of Platelet Rich Plasma Components for the Treatment of Tendonitis	\$ 283,117 \$ 51,093 \$ 44,646 \$ 57,213
	NIH-Hospital For Special Surgery NIH-University of Pittsburgh	Evaluation of an MRI Biomarker for Meniscal Repair Multicenter Cartilage Repair Preclinical Trial in Horses: ARRA Funds	\$ 12,708 \$ 81,808
Susan Fubini	Clinical Research Grants Program	Regional Limb Perfusion of Amikacin Alone and in Combination with Ticarcillin	\$ 3,550
Robert Gilbert	USDA-Federal Formula Funds	Genetics of Reproduction: Ovulation and Uterine Disease	\$ 14,130
Robin Glead	NIH-Transonic Systems USDA-Federal Formula Funds	Large Animal Model of Hydrocephalus Genetics of Reproduction: Ovulation and Uterine Disease	\$ 18,956 \$ 11,870
Robin Glead; Robin Radcliffe	Morris Animal Foundation	Effects of Lateral and Sternal Posture in Anesthesia and Post-capture health in Black Rhinoceros	\$ 40,949
Catherine Hackett; Lisa Fortier	NIH	Defining Mesenchymal Progenitor Cell Subpopulations	\$ 60,962
George Kollias; Noha Abou-Madi	Clinical Research Grants Program	Investigating the Reproductive Biology of the Endangered Markhor Goat	\$ 5,630
Jodi Korich	Department of Education - University of Wisconsin USDA-APHIS	Veterinary Curricular Cooperative: Reducing Veterinary Student Debt Loads Through Electronic Sharing of Courses and "Textbooks" Foreign Animal Disease Diagnosticians Field Manual	\$ 10,543 \$ 13,075
Ursula Krotscheck	Morris Animal Foundation-Small and Large Companion	Prospective Objective Evaluation of the Surgical Treatment of Fragmented Coronoid Processes in Dogs	\$ 46,031
Nathaniel LaHue; Robin Radcliffe	Morris Animal Foundation - Wildlife Health Studies	The Risk of Trypanosoma evansi to Sumatran Rhinoceros in Way Kambas National Park, Sumatra, Indonesia	\$ 4,000
Eric Ledbetter; Julia Felipe	Collaborative Research Program	Vaccination to Prevent Recurrent Canine Herpesvirus-1 Disease and Viral Shedding in Mature Dogs	\$ 25,400
Alan Nixon	Harry M. Zweig Memorial Fund for Equine Research NIH	Targeted Delivery of Stem Cells for Pro-Inflammatory Cytokine Suppression in Arthritic Joints Gene Enhanced Cartilage Repair in a Cytokine Permissive Enviroment	\$ 101,065 \$ 316,295
Kyla Ortved; Alan Nixon	Grayson-Jockey Club	Combinatorial Gene Therapy in Equine Chondrocytes	\$ 15,000
Germain Rivard; Dave Lin	Johns Hopkins Centr/Alternatives to Animal Testing	Alleviating Human Induced Fear Response in Mice	\$ 6,000
Catherine Rogers	Feline Health Center	Evaluation of Coagulation Abnormalities in Feline Patients Using a Point-of-Care Analyzer	\$ 8,000

Name	Sponsor	Title	Annual Award
Clinical Sciences (con't)			
Kenneth Simpson	ACVIM Foundation	Development of a Novel Amikacin Delivery Method for Treatment of E. coli Associated With Granulomatous Colitis of Boxer Dogs	\$ 17,874
	American Kennel Club Canine Health Foundation	Granulomatous Colitis in Boxer Dogs: Fine Mapping of Disease Associated Loci and Functional Analysis of Bacterial Killing	\$ 75,000
	Crohn's and Colitis Foundation	Functional Analysis of Crohn's Associated Adherent and Invasive E. coli	\$ 128,700
	New York Presbyterian Hospital	IBD Collaboration	\$ 100,000
	NIH-University of North Carolina	Colitis Induced by Immune Responses to Luminal Bacteria	\$ 144,606
	Royal College of Veterinary Surgeons	Investigation of Protein-losing Enteropathy in Yorkshire Terriers	\$ 8,000
Nora Springer; Tracy Stokol	American Society for Veterinary Clinical Pathology	Procoagulant Activity in Horses: Measurement of Platelet-derived Microparticles and Endogenous Thrombin Potential	\$ 2,435
Nathaniel Sutter	NIH	Identifying Genome Wide SINE Retrotransposons Contributing to Dog Size Variation	\$ 269,500
Bud Tennant	Gilead Sciences	Antiviral Studies	\$ 77,000
Joseph Wakshlag	American Kennel Club Canine Health Foundation	The Effects of Baicalein on Canine Osteosarcoma Cells	\$ 12,366
		Influence of Diet on Olfaction Capabilities in Detection Dogs	\$ 30,800
	Auburn University	Investigation Into the Role of 5-lipoxygenase in Canine Osteosarcoma	\$ 16,098
	Morris Animal Foundation-Small and Large Companion Nestle Purina	Investigation into the Relationship Between Zoometric Morphometry/body Condition Score, Markers of Insulin Sensitivity and Serum	\$ 17,019
Barbour Warren; Carol Devine	USDA-NIFA	Weight Gain Prevention among Breast Cancer Survivors: Beliefs, Behaviors and Social Networks	\$ 139,600
Ashlee Watts; Alan Nixon	NIH	Gene Induction of Stem Cell Chondrogenesis	\$ 64,418
Molly Yazwinski; Joseph Wakshlag	International Sled Dog Veterinary Medical Associat	Associations Between Kilocalorie Intake and Lean Body Mass in Relationship to Serum Biomarkers of Skeletal Muscle Metabolism	\$ 4,000
Eric Zager; Daniel Fletcher	Morris Animal Foundation - Veterinary Scholar Program	Muscle Tissue Oxygen Saturation as a Marker of Oxygen Delivery in Hospitalized Cats	\$ 4,000
Microbiology and Immunology			\$ 9,241,322
Robert Abramovitch; David Russell	NIH	Genetics of Mycobacterium tuberculosis Adaptation to the Macrophage Phagosome	\$ 52,154
Avery August	NIH	ITK Mast Cells and Allergic Airway Responses	\$ 530,709
	NIH	Role of the Tyrosine Kinase ITK in Experimental Allergic Asthma	\$ 363,012
	NIH	Eosinophils and Allergic Airway Responses	\$ 372,563
	NIH	Eosinophils and Allergic Airway Responses ARRA Supplement	\$ 78,627
	Ono Pharmaceutical	Anaysis of Kinase Inhibitors	\$ 165,185
Joel Baines	NIH	Nucleocapsid Envelopment Herpes Simplex Virus-1	\$ 375,462
Dwight Bowman	Merial Limited	Isolation of Ancylostoma braziliense	\$ 18,357
	USDA-AFRI	Current Knowledge of Sources, Fate and Transport of Rural and Agricultural Watershed Pathogens: A National Synthesis Workshop	\$ 299,370
Paul Bowser	New York Sea Grant Institute - Stony Brook	Assessment of Viral Hemorrhagic Septicemia Virus Egg Transmission	\$ 0
		Management of Risk from VHSV in Bait Minnows	\$ 100,134
	Saint Regis Mohawk Tribe	Fish Tumor Study, Lab Analysis - Histopathology	\$ 40,635
	USDA	Minor Use Animal Drug Program: Northeast Region (NRSP No. 7)	\$ 24,135
	USDA-Federal Formula Funds	Aquatic Invasions in the Great Lakes: Presaging Pathogen Outbreaks	\$ 25,000
	USDA-Special Grants Program	Minor Use Drug Program: Northeast Region (NRSP No. 7)	\$ 56,457
Margaret Bynoe	Center for Advanced Technology	Modulation of Endothelial Cell Permeability by Adenosine	\$ 40,365
	NIH	CD-73 Adenosine Signaling in the Central Nervous System in Disease and Health: Research Supplements to Promote Diversity	\$ 47,136
	NIH	CD-73-Adenosine Signaling in the Central Nervous System in Disease and Health	\$ 333,506
James Casey	NIH-Colorado State University	Retroviral Cyclin Effects Oncogenic Cyclin-dependent Kinases	\$ 16,096
Theodore Clark	NIH	ASSET: Advancing Secondary Science Education with Tetrahymena	\$ 229,257
	NIH	A Resource Center for Tetrahymena thermophila	\$ 336,034
Eric Denkers	NIH	Signal Transduction During Toxoplasma Infection	\$ 371,365
Rodney Getchell	USDA-APHIS	Viral Hemorrhagic Septicemia Surveillance	\$ 76,516
Keith Jarosinski	NIH	Herpesvirus-Induced Telomerase Dysregulation and Tumor Formation	\$ 221,505
	USDA	Determining the Role of Marek's Disease Virus (MDV) Glycoprotein C in Horizontal Transmission	\$ 124,907
Alice Lee; Dwight Bowman	Novartis	Development of Non-Terminal Methods for Determining Efficacy of Anthelmintics -- Postdoctoral Fellowship	\$ 85,533
Cynthia Leifer	NIH	Toll-like Receptor 9: Trafficking and Signaling	\$ 339,605
	NIH-Fox Chase Cancer Center	Immune Mechanisms that Control Ectromelia Virus Infection	\$ 17,072
Deeqa Mahamed; Margaret Bynoe	NIH	CD-73 Adenosine Signaling in the Central Nervous System in Disease and Health: Research Supplements to Promote Diversity	\$ 47,136

Name	Sponsor	Title	Annual Award
Microbiology and Immunology (con't)			
Helene Marquis	USDA-Federal Formula Funds	Modulation of Innate Immunity by a Bacterial Phospholipase	\$ 50,000
Helene Marquis; Kirk Maurer	Collaborative Research Program	Modulation of Innate Immunity by a Bacterial Phospholipase	\$ 45,000
Helene Marquis; Susana Mendez	DOD-PRMRP	Listeria-based Vaccine for Cutaneous Leishmaniasis	\$ 355,032
Jeff Mills; Margaret Bynoe	NIH	Adenosine Receptor A2A Regulation of EAE and CNS Lymphocyte Infiltration	\$ 52,154
David Russell	Bill & Melinda Gates Foundation- Univ of Pittsburgh	In vivo Imaging of Tuberculosis and its Response to Chemotherapy	\$ 118,576
	NIH	The Role of the Granuloma in M. tuberculosis Infection	\$ 409,863
	NIH	Development of a Cell-Based HTS for Compounds with Activity Against Tuberculosis	\$ 266,495
	NIH	Restoration of Alveolar Macrophage Function in HIV Patients: A Clinical Study	\$ 479,534
	NIH	Environmental Cues and Responses in Tuberculosis	\$ 449,865
	Vertex	Development and Validation of Cell Based Assays for Assessing Mycobacterium tuberculosis (Mtb) Fitness in Macrophage Infection	\$ 311,949
	NIH	Development of a Cell-Based HTS for Inhibitors of Inflammatory Macrophages	\$ 380,317
Marci Scidmore	NIH	The Role of Rab GTPases in Chlamydia-Infected Cells	\$ 370,171
Gary Whittaker	Feline Health Center	Activation of the Feline Coronavirus Spike Protein and its Role in Viral Pathogenesis	\$ 30,000
	NIH	Endocytosis of Influenza Virus	\$ 367,130
	NIH-University of Rochester	NIAID Centers for Excellence for Influenza Research and Surveillance	\$ 742,417
	Winn Feline Foundation	Evolution of Feline Infectious Peritonitis Virus within FIP Cats and Tissue-specific Adaptation of the Virus to Activating Proteases	\$ 24,986
Molecular Medicine			\$ 2,942,656
Richard Cerione	NIH	Roles of Cdc42 and its Signaling Partners in Cell Growth and Differentiation	\$ 316,964
	NIH	Role of GTP-Binding/Transglutaminase in Cell Survival and Migration	\$ 277,169
	NIH	Characterization of Growth Factor-Coupled Signaling	\$ 338,000
	Susan G. Komen for the Cure	Examining a Novel Link Between Rho GTPases and the Metabolic Machinery of Human Breast Cancer Cells	\$ 200,000
Ruth Collins	NIH	Molecular Analysis of E1p complex Function in Health and Disease	\$ 276,297
William Katt; Richard Cerione	American Cancer Society	Glutaminase Inhibition as a Method of Breast Cancer Control	\$ 44,000
Natasza Kurpios	March of Dimes Birth Defects Foundation	The Mechanism of Intestinal Coiling	\$ 147,026
Robert Oswald	NIH	Training in Molecular Physics of Biological Systems	\$ 481,078
	NIH	Dynamic Properties of a Glutamate Binding Domain	\$ 289,674
	NIH	Allosteric Modulators of Glutamate Receptors	\$ 190,575
Kinning Poon; Robert Oswald	NIH	Functional Characterization of an AMPA receptor: GluR3	\$ 37,860
Holger Sondermann	NIH	Mechanism and Regulation of c-di-GMP Signaling in Bacterial Biofilm Formation	\$ 284,013
	Pew Scholars	Mechanistic Studies of Cyclic di-GMP Signaling in Bacterial Pathogenesis	\$ 60,000
Population Medicine and Diagnostic Sciences			\$ 4,593,531
Alfonso Torres	USDA-APHIS	Foreign Animal Disease Diagnosticians Field Manual	\$ 13,075
Craig Altier	USDA-Federal Formula Funds	Improved Diagnosis of Bacterial Diseases in Production Animals	\$ 3,800
	USDA-Federal Formula Funds	Improved Diagnosis of Bacterial Diseases of Cattle	\$ 27,000
	USDA-NIFA	Pathogen and Host Mechanisms Involved in Salmonella Infection of Tomato	\$ 169,912
Craig Altier; Karyn Bischoff; Yung-Fu Chang; Amy Glaser	USDA-Pennsylvania State University	Serum ELISA, Milk ELISA, and Organism Detection Test Laboratories	\$ 43,125
Rodrigo Bicalho	Cornell Center for a Sustainable Future	Replacing Antibiotic Therapy in the Food Animal Industry With Bacteriophage Therapy	\$ 60,001
	USDA-Federal Formula Funds	Mastitis Resistance to Enhance Dairy Food Safety/Assemblin and Evaluating an Environmental Bacteriophage Cocktail for Treatment of Bacterial Mastitits of Dairy Cattle	\$ 40,000
Karyn Bischoff	National Veterinary Research & Quarantine Service	Development of the Identification Strategy for the Animal Poisoning and Feed Contaminants and Rapid Detection Method for Mycotoxins, Phytotoxins, and Heavy Metals	\$ 58,380
	USDA-Federal Formula Funds	Assessing the Fate of Drugs in Livestock Mortality and Manures	\$ 31,000

Name	Sponsor	Title	Annual Award
Population Medicine and Diagnostic Sciences (con't)			
Yung-Fu Chang	Biotechnology Research and Development Corp.	Construction of M. avium subsp. Paratuberculosis Mutants as Vaccine Candidates	\$ 118,723
	Biotechnology Research and Development Corp.	Development of a Vaccine Delivery System Against Bovine Leptospirosis	\$ 315,300
	NIH-Virginia Polytech Inst. & State University	Comparative Transcriptome Analysis of Clostridium Difficile Strains	\$ 292,608
	Penn State University	Vaccine Trial Against Johne's Disease in a Mouse Model	\$ 30,400
	Pfizer Animal Health	Development of an Equine Leptospirosis Challenge Model	\$ 127,323
	USDA-AFRI	Protective Efficacy of Genetically Engineered Salmonella Strains Against Mycobacterium avium subsp. paratuberculosis	\$ 185,000
	USDA-Federal Formula Funds	Development of a Luminex Serologic Test for Diagnosis of Mycobacterium avium subsp. paratuberculosis Infection in Cattle	\$ 30,000
	USDA-Federal Formula Funds	Development of a Vaccine Against Mycobacterium avium susp. Paratuberculosis Infection in Sheep/Goats	\$ 30,000
Yrjo Grohn	USDA-Kansas State University	Practical Interventions to Effectively Manage Antibiotic Resistance in Beef and Dairy Cattle Systems: A Fully Integrated Approach	\$ 106,441
	USDA-National Research Initiative	Cost Effective Control Strategies for the Reduction of Johne's Disease on Dairy Farms	\$ 130,783
	USDA-NIFA	Optimal Clinical Mastitis Management in Dairy Cows	\$ 158,956
Yrjo Grohn; Ynte Schukken	USDA-University of Pennsylvania	JDIP: Epidemiology and Biostatistics	\$ 20,000
	USDA-University of Pennsylvania	JDIP: Epidemiology and Transmission Project	\$ 25,000
Hussni Mohammed	Qatar National Research Fund	Investigating the Risk Associated With Foodborne Pathogens and the Potential Relation to Inflammatory Bowel Disease in Qatar	\$ 105,367
	USDA-Federal Formula Funds	Factors Led to Evolution of Endemic Foci for West Nile Virus in New York State	\$ 8,564
	USDA-Federal Formula Funds	The Risk of Escherichia coli and Campylobacter spp in New York City Watershed	\$ 30,000
Daryl Nydam	Immucell Inc	Bovine Rotavirus Vaccine Efficacy Study	\$ 138,422
	USDA-Federal Formula Funds	Management Systems to Improve the Economic and Environmental Sustainability of Dairy Enterprises (Rev. NC-1119)	\$ 30,000
	USDA-Federal Formula Funds	Periparturient Energy Balance and Endometritis in Dairy Cows: An Integrated Approach to Epidemiology, Immunology and Management (aka Transition Dairy Cow... Management)	\$ 18,000
	USDA-National Research Initiative	Periparturient Energy Balance and Endometritis in Dairy Cows: An Integrated Approach to Epidemiology, Immunology, and Management	\$ 155,570
Ned Place	NSF	Integrated Analyses of the Seasonally Quiescent Ovary and Female Reproductive Aging	\$ 125,013
	USDA-Federal Formula Funds	Ovarian Influences on Embryonic Survival in Ruminants/Genomic Investigation of Ovaries Unresponsive to Gonadotropin Stimulation	\$ 28,000
Ned Place; Janet Scarlett	Morris Animal Foundation-Small and Large Companion	Development of a New Diagnostic Test (anti-Mullerian hormone) for Non-Surgical Evaluation of Spay Status and Ovarian Remnant Syndrome	\$ 33,381
Ynte Schukken	BARD (US-Israel)	Identification of genes involved in virulence of Escherichia coli mastitis by Signature Tagged Mutagenesis	\$ 31,000
	Boehringer Ingelheim Vetmedica, Inc.	Clinical Mastitis in Dairy Cows	\$ 160,000
	Intervet-Merial	Prednisolone Studies	\$ 93,699
	USDA-ARS	Pilot Study of Factors Affecting Maintenance of Mycobacterium, Salmonella, E. coli and Listeria on Dairy Farms	\$ 45,882
	USDA-Federal Formula Funds	Food Safety in NY - Food Safety Awareness on New York Dairy Farms	\$ 30,000
	USDA-Federal Formula Funds	Mastitis Resistance to Enhance Dairy Food Safety	\$ 35,000
	USDA-University of Wisconsin-Madison	Impact of Organic Management on Dairy Animal Health and Well-being	\$ 146,939
	Pfizer Animal Health	Mastitis Field Studies	\$ 31,060
	New York State Agricultural and Markets	Monitoring Animal Health and Food Food Safety in Dairy Herds Using Bulk Milk	\$ 50,000
	Pfizer Animal Health	Towards Resolving Infections in the Dry Period	\$ 89,359
Rebecca Smith; Yrjo Grohn	NIH	Mathematical and Statistical Modeling of Mycobacterial Disease Control	\$ 74,303
Michael Stanhope	NIH	Evolutionary Genomics and Population Genetics of Pathogenic Streptococci	\$ 514,387
Tracy Stokol; Michael Shuler	NIH	Is a Tissue Invasive Phenotype Conferred on Malignant Breast Cancer Cells After Adherence to Lung Microvascular Endothelial Cells?	\$ 92,577
	Clinical Research Grants Program	Procoagulant Properties of Canine Hemangiosarcoma	\$ 8,000
	Morris Animal Foundation	Leukocyte and Neural Endothelial Cell Interactions with the Coagulation Cascade: Role in the Pathogenesis of Equine Herpes Virus Myeloencephalopathy	\$ 80,920
Bettina Wagner	Harry M. Zweig Memorial Fund for Equine Research	Innate Immune Mechanisms and T-Cell Responses to Equine Herpesvirus Type 1 in Latently Infected and Naive Horses	\$ 63,271
	Morris Animal Foundation-Small and Large Companion	Novel Immune Reagents for Cytokines to Advance the Analysis of the Cellular Immune Response in Horses	\$ 68,484
	USDA-University of Massachusetts	Development of High Priority Immune Reagents for Food Security	\$ 79,101
Lorin Warnick	USDA-Washington State University	Minimizing Antimicrobial Resistance Transmission: The Dairy Farm as the Model System	\$ 210,405

Total

\$41,850,407